

Length-weight relationship of *Scomber scombrus* from Slovenia, sampled from 22.03.2002 to 20.06.2024 (n = 250, length range from 10.30 cm to 31.80 cm, specimen condition: mixed)

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- Data source: BIOS, Fisheries Research Institute of Slovenia
- Analysed on: 26.11.2024
- Country: SVN
- Species: *Scomber scombrus*
- Length type: FL (biometry_id = 79)
- Season: combined
- Sex: mixed
- Specimen condition: mixed
- Sampled from: 22.03.2002
- Sampled to: 20.06.2024
- n: 250
- L min [cm]: 10.30
- L max [cm]: 31.80
- W min [g]: 9.30
- W max [g]: 395.00
- Data transformation: natural logarithm
- a: 0.0028535
- b: 3.4391173

Statistics - summary

Linear model:

```
##
## Call:
## lm(formula = ln_w_y ~ ln_l_x, data = data_clean)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.4192 -0.0415  0.0072  0.0550  0.3445
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  -5.8592     0.0664   -88.2   <2e-16 ***
## ln_l_x         3.4391     0.0218   158.1   <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.085 on 248 degrees of freedom
## Multiple R-squared:  0.99,    Adjusted R-squared:  0.99
## F-statistic: 2.5e+04 on 1 and 248 DF,  p-value: <2e-16
```

ANOVA:

```
##              Df      Sum Sq      Mean Sq  F value      Pr(>F)
## ln_l_x         1 180.754999 1.807550e+02 24995.45 5.649083e-251
## Residuals    248   1.793416 7.231517e-03      NA      NA
```

Visualization

